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Patent claims

1. A spinning position (6) of an air-jet spinner for producing a yarn from a fiber structure (1), the spinning position (6) having a fiber guidance element (3) with a fiber guiding surface (5) contained therein, to which the fiber structure (1) is introduced;
5 characterized in that
the direction of introduction (34) of the fiber structure (1) is inclined by an angle of inclination α in relation to the direction of the fiber guiding surface (5) at a
10 deflecting location (32), preferably an entry edge (32), and in that the deflecting location (32) is arranged inside or at the edge (33) of the fiber guidance element (3).
2. The spinning position (6) as claimed in claim 1,
15 characterized in that
the angle of inclination α between the direction of introduction (34) of the fiber structure (1) and the direction of the fiber guiding surface (5) lies in the range of values of $5^\circ \leq \alpha \leq 75^\circ$, with preference in the range of values of $5^\circ \leq \alpha \leq 25^\circ$; preferably, the angle of inclination α has a value of 15° .
- 20 3. The spinning position (6) as claimed in claim 1 or 2,
characterized in that
the fiber guidance element (3) has an end face (33) and in that the deflecting location (32), preferably the entry edge (32), is at a distance b from the end face
25 (33) in the direction of the fiber guiding surface (5) of $0.01 \text{ mm} \leq b \leq 4 \text{ mm}$; with preference, the distance b has a value of 1 mm.
4. The spinning position (6) as claimed in one of claims 1 to 3,
characterized in that

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the fiber guidance element (3) has a run-in ramp (39), which is inclined with respect to the fiber guiding surface (5) by an angle γ , which lies in a range of values of $100^\circ \leq \gamma \leq 150^\circ$; with preference, the angle has a value of 120° .

5. The spinning position (6) as claimed in one of claims 1 to 4,
5 characterized in that a drafting system is arranged upstream of the fiber guidance element (3) and in that the entry edge (32) lies outside the associated plane (30) of the drafting system.

6. The spinning position (6) as claimed in claim 5,
10 characterized in that the plane (30) of the drafting system is inclined in relation to the direction of introduction (34) of the fiber structure (1) by an angle β which lies in the range of values of $0^\circ < \beta \leq 10^\circ$; preferably, the angle β has a value of 5° .

- 15 7. The spinning position (6) as claimed in one of claims 1 to 6, characterized in that the drafting system includes two delivery rollers (2) and in that the entry edge (32) lies at a distance a from the plane (35) formed by the axes of rotation of the delivery rollers (2), the distance a lying in the range of values of $9 \text{ mm} \leq a \leq 13$
20 mm; preferably, the distance a has a value of 11 mm.

8. A fiber guidance element (3) with a fiber guiding surface (5) contained therein for a spinning position (6) of an air-jet spinner,
25 characterized in that a deflecting location (32), preferably an entry edge (32), is formed by the fiber guiding surface (5) and a run-in ramp (39) inside or at the edge of the fiber guidance element (3).

9. The fiber guidance element (3) as claimed in claim 8,
30 characterized in that

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the fiber guidance element (3) has an end face (33) and in that the deflecting location (32), preferably entry edge, is at a distance b from the end face (33) in the direction of the fiber guiding surface (5) in the range of values of $0.01 \text{ mm} \leq b \leq 4 \text{ mm}$; with preference, the distance b has a value of 1 mm.

- 5 10. The fiber guidance element (3) as claimed in claim 8 or 9, characterized in that the fiber guiding surface (5) and the run-in ramp (39) are inclined by an angle γ , which lies in the range of values of $100^\circ \leq \gamma \leq 150^\circ$; with preference, the angle γ has a value of 120° .

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11. The fiber guidance element (3) or spinning position (6) as claimed in one of the preceding claims, characterized in that the distance c between the deflecting location (32) and the plane (30) of the drafting system lies in the range of values of $0 \text{ mm} \leq c \leq 7 \text{ mm}$, the distance c preferably being 1 mm.

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